

Modeling and Simulation Common Components Workshop

13 April 2004

Hosted by: The Army Model and Simulation Office

In Coordination with PEO STRI, and NAVAIR Orlando Training
Systems Division



Introduction

- Purpose: Industry and Government discuss the implications of increasing the use of vendor supplied Common Components in government procurements.
- Expected outcomes: Identify specific areas for industry and government to foster change to the advantage of industry and government.
- Thank you for participating
- Results will be documented and actions assigned to appropriate organizations.

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Advantages to Increasing Common Component Usage

- Reduce M&S procurement costs
 - Reduce delivery times, cost, and risk
 - Allow for rapid insertion of new technology
 - Increase system flexibility
 - Promote interoperability
- Common Components can be:
 - Commercial Off the Shelf (COTS)
 - Non-Developmental Items (NDI)
 - Government Off the Shelf (GOTS)

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Common Components

Working definition for this workshop:

An independently deployable system or subsystem, or unit of software or hardware, which can be used and reused across vendors and government applications.

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Long-term Goal

- Common Components are available to DoD M&S developers for integration into unique M&S systems.

Note:

The commercial marketplace is adept in the use of common components in the industries of automotive, aircraft manufacturing, business modeling and gaming.

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DoD Opportunities: Common Functionality

- Many M&S Functions are Common
 - Examples: Instructor/Operator Stations, Debrief Stations, After Action Review Systems, Visual Systems, Platform & Sensor Models, Environmental Representation, Simulation Architectures

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Challenges

- Defining technical requirements for functionality, interfaces and architecture
 - Will require Government/Industry coordinated efforts, with this workshop as starting point
- Developing business model for each Service, preferably DoD-wide, for implementation of Common Components Initiative

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Discussion Topics

- Discussion of Common Components
 - Government identification of interfaces and capabilities for industry
 - Ability to meet security requirements
 - Ability to meet C4ISR Interoperability requirements
- Common Component Business Models
 - Impact on Industry & Government methods for providing products
 - Lack of delivered source code
 - License Agreements
- Common Component Product Lines
 - What does industry need to build common components?
 - What tools need to be developed to support common component integration?
 - How does industry provide allowances for Government IV&V of Common Components?

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Next Steps

- Capture issues/recommendations from today's workshop.
- Develop a POA&M to address next actions.
- Continue to integrate industry and government teams to evolve better business models.

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